| , | Index of Claims                   | Application No.  | Applicant(s)      |
|---|-----------------------------------|------------------|-------------------|
|   | 1 ( <b>3 0</b> ) (1               | 10/699,777       | KITAHARA, TAKASHI |
|   |                                   | Examiner         | Art Unit          |
|   |                                   | Kenneth B. Wells | 2816              |
|   | Rejected _ (Through num Canc II d | ral) Non-Elect d | A App al          |

|          |          | =                   | All           | ow      | ed  |         |          | +          |  | Restricted |   |          |                 |                   |          |          |          | ı        | Interferenc |          |          | ice |          | O Objected |                 |                |  |         |          |              |           |          |   |
|----------|----------|---------------------|---------------|---------|---|---------|----------|------------|--|------------|---|----------|-----------------|-------------------|----------|----------|----------|----------|-------------|----------|----------|-----|----------|------------|-----------------|----------------|--|---------|----------|--------------|-----------|----------|---|
| Cli      | alm      | Date                |               |         |   |         |          |            |  |            | Claim   |          |                 |                   |          |          | ate      |          |             |          | -        | 1   | Claim    |            |                 |                |  | $\neg$  |          |              |           |          |   |
| Final    | Original | 1/16/04             | ,             |         |   |         |          |            |  |            | Final   | Original |                 |                   |          |          |          |          |             |          |          |     | Final    | Original   |                 |                |  |         |          |              |           |          |   |
|          |          |                     |               |         | I   |         |          |            |  |            |   | 51       |                 |                   |          |          |          |          |             |          |          |     |          | 101        |                 |                | 士  | 土       | 土        | 上            |           |          |   |
|          |          | Ш                   | _             | $\bot$  | ┸   | ┸       | ┺        | <u> </u>   | L  | l          |   | 52       | Ш               |                   |          | $\Box$   |          |          |             |          |          |     |          | 102        |                 | $\Box$         | $\perp$  | $\perp$ | L        |              |           |          |   |
|          | 3        | Ш                   |               | +       | +   | +       | ╄        | ┞_         | ļ.,  | Į          |   | 53       |                 | _                 |          | _        |          |          |             | _        | <u> </u> | Į į |          | 103        | Ш               | 4              |  | 4-      | 丰        | 1_           | Ш         |          |   |
|          | 1        | $\vdash$            | -             |         | +   | +       | +        | -          | <b> </b> -                                       | l          |   | 54       | $\vdash$        | -                 |          | $\dashv$ |          |          |             |          |          |     |          | 104        | $\sqcup$        | 4              | -  | 4       | ╀-       | ╄            | Ш         | Ш        |   |
|          | 8        | $\vdash$            | -             | +       | ╀   | +       | ╀╌       | ┝          | ▙  | ł          |   | 55       |                 |                   | -        | $\dashv$ |          |          |             | -        | _        |     |          | 105        |                 | 4              | +  | ╀       | ╄        | ╄            | Ш         |          |   |
| <u> </u> | 1-3      | Н                   | +             | +       | ╁   | ╄       | ╀        | ┝          | ┡  | 1          |   | 56<br>57 | ⊢               | $\dashv$          | -        | $\dashv$ |          |          | _           | Н        | ⊢        |     | $\vdash$ | 106<br>107 | Н               | $\dashv$       | +  | ┿       | ╀        | ╀            | Н         | $\vdash$ |   |
| _        | 1        | Н                   | -+-           | +-      | ╁╌  | ╁╌      | ╀╌       | -          | ┨  | 1          | -   | 58       | $\vdash$        | $\dashv$          | -        |          |          |          |             | Н        |          | l   | $\vdash$ | 107        | Н               | -+             | $\dashv$   | ╀       | ╄        | ┼-           | Н         | $\vdash$ |   |
|          | 3        | $\vdash$            | +             | ╅╴      | ┿   | ╁       | ╫        | $\vdash$   | ┢  | ┨          |   | 59       | ┰               | -                 | -        | $\dashv$ |          | -        |             | Н        | _        |     |          | 109        | Н               | $\dashv$       | +  | ╫       | ╁        | +            | Н         | $\vdash$ |   |
|          | 本        | H                   |               | ╅       | +   | ╁       | +        | $\vdash$   | ┢  | 1          | <u> </u>  | 60       | $\vdash \vdash$ | $\dashv$          | $\dashv$ | -        | $\dashv$ | Н        | _           | $\vdash$ | $\vdash$ | 1   | $\vdash$ | 110        | ╁╌┨             | +              | +  | +       | ┿        | ┰            | $\vdash$  | $\vdash$ |   |
| -        | 1        | H                   | 4             | +       | +   | +-      | †        | ╁          | <del>                                     </del> | 1          | $\vdash$  | 61       | ╁╌┤             | $\dashv$          | Н        | -        | Н        | Н        | -           | Н        | Η-       |     |          | 111        | $\vdash \vdash$ | $\dashv$       | +  | +       | +        | +            | Н         | Н        |   |
|          | 12       | Ø                   | +             | +       | +   | 十       | t        | t          | $\vdash$   | 1          | $\vdash$  | 62       | $\vdash$        | $\neg$            | Н        |          | $\vdash$ | Н        |             | H        | $\vdash$ |     |          | 112        | $\vdash$        | $\dashv$       | +  | +       | +        | +            | $\vdash$  | $\vdash$ |   |
|          | 13       | H                   | ,             | +       | 1   | $\top$  | $\vdash$ | t          | ╆-   | 1          |   | 63       | ┝╌┤             | $\dashv$          | $\dashv$ | $\dashv$ | Н        | $\dashv$ |             | Н        |          |     |          | 113        | $\vdash$        | $\dashv$       | 十  | +       | +        | +            | Н         | $\vdash$ |   |
|          | 14       | M                   | 4             | 十       | †   | +       | 十        | ┢          | ┰  | 1          |   | 64       | $\vdash$        | ᅥ                 | _        | -        |          |          |             |          | -        |     |          | 114        | $\vdash$        | $\dashv$       | +  | 十       | ${}^{+}$ | +-           | Н         | Н        |   |
|          | 15       |                     | $\neg$        | 十       | T   | T       | 1        | Г          | Г  | 1          |   | 65       | H               | _                 |          | _        | $\neg$   |          |             | Н        |          |     |          | 115        |                 | 7              | +  | +       | +        | +            | $\vdash$  |          |   |
|          | 16       |                     | 十             | _       | T   | $\top$  | T        | 1          | Т  | 1          |   | 66       | Н               | ┪                 |          |          |          |          |             | П        |          | ·   |          | 116        |                 | 寸              | _  | +       | +        | †-           | Н         | Н        |   |
|          | 17       | Ш                   | _             | _       | Τ   | $\top$  | T        | Г          | Т  | 1          |   | 67       | $\Box$          | $\neg$            |          |          |          |          |             | П        |          | 1   |          | 117        | $\vdash$        | +              | 十  | ╈       | +-       | ╁            | Н         |          |   |
|          | 18       | Ш                   | $\dashv$      | $\top$  | $\top$  | 十       | T        | $\vdash$   | Г  | 1          |   | 68       | П               | $\neg$            |          |          |          |          |             | Н        |          |     |          | 118        | Н               | +              | 十  | +       | +        | +            | Н         |          |   |
|          | 19       | Ш                   | $\neg$        | 1       | 十   | 1       | Т        | Т          | 1  | 1          |   | 69       |                 |                   |          | $\neg$   |          |          | _           |          |          |     |          | 119        | Н               | 寸              | _  | +       | T        | +            | П         |          |   |
|          | 20       | Ш                   |               | $\top$  | т   | T       | T        |            | İ  | 1          |   | 70       | П               | $\neg$            |          | $\neg$   |          |          |             |          |          |     |          | 120        |                 | $\dashv$       | 十  | ╅       | †        | $\top$       | П         |          |   |
|          | 21       | V                   | $\mathcal{I}$ | $\top$  |   | T       | Т        |            |  | 1          |   | 71       | П               |                   |          |          |          |          |             | П        |          |     |          | 121        | П               | 7              | 十  | 十       | $\top$   | 1            | П         |          |   |
|          | [ 22,    | M                   |               |         | 1   | Τ       | Т        | Г          |  | 1          |   | 72       | П               | 一                 |          |          |          |          |             |          |          |     |          | 122        | П               | 寸              | 十  | $\top$  | T        | 1            | П         | П        |   |
| _        | 23       |                     |               | Τ       |   | $\top$  |          |            |  | 1          |   | 73       | П               |                   |          |          |          |          |             |          |          |     |          | 123        |                 | 7              | 十  | 1       | $\top$   | $\top$       | П         |          |   |
|          | 24       | П                   | T             | Т       | Т   | Τ       | 1        |            |  | 1          |   | 74       | П               | $\neg$            |          |          |          |          |             |          |          |     |          | 124        | $\Box$          | 7              | _  | $\top$  | T        | 1            | П         |          |   |
|          | 25       | П                   |               |         | Т   |         |          |            |  | 1          |   | 75       | П               | $\neg$            | П        | $\neg$   |          |          |             |          |          |     |          | 125        |                 | 丁              | $\neg$   | $\top$  | T        | $\top$       | П         |          |   |
|          | 26       | П                   |               |         | Т   | Т       | П        | Γ          | Г  | 1          | Г   | 76       | П               | ╗                 | $\neg$   |          |          |          |             |          |          |     |          | 126        |                 | _              | $\top$   | $\top$  | $\top$   | $\top$       | П         | $\neg$   |   |
|          | 27       | П                   |               |         | $\Gamma$  |         | Г        |            |  | ]          |   | 77       | П               | $\neg$            | $\neg$   | $\neg$   |          |          |             |          |          |     |          | 127        | П               | T              | $\top$   | 丁       | T        | $\top$       | П         | П        |   |
|          | 28       |                     | $\Box$        |         |   |         |          |            |  | ]          |   | 78       |                 |                   |          |          |          |          |             |          |          |     |          | 128        | П               | $\neg$         | Т  | $\top$  | Т        | Т            | П         |          |   |
|          | 29       |                     |               | Ι       | П   | Г       |          |            |  | 1          |   | 79       |                 |                   |          |          |          |          |             |          |          |     |          | 129        | П               | $\neg$         | _  | $\top$  | Т        | 1            |           | $\neg$   |   |
|          | 30       | Ш                   |               | $\perp$ |   |         |          |            |  |            |   | 80       |                 |                   |          |          |          |          |             |          |          |     |          | 130        |                 |                | $\Box$   | $\Box$  |          |              |           |          |   |
|          | 31       | Ш                   |               |         | $oldsymbol{ol}}}}}}}}}}}}}}}$ | L       |          | L          |  | l          |   | 81       | Ш               |                   |          |          |          |          |             |          |          |     |          | 131        |                 | $\Box$         | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\square}}}$ | $\perp$ |          | L            |           |          |   |
|          | 32       | Ц                   | _             | ┸       | 丄   | ᆚ_      | 乚        | 匚          | ᆫ  |            | Ш   | 82       |                 | _                 | $\Box$   | $\perp$  | $\Box$   |          |             |          |          |     |          | 132        |                 |                | $\perp$  | 丄       | L        |              |           |          |   |
|          | 33       | Ц                   |               | $\perp$ | ┸   | L       | L        |            | L  |            |   | 83       | Ш               | _                 |          |          |          |          |             |          |          |     |          | 133        |                 |                |  | $\perp$ | L        |              |           |          |   |
|          | 34       | Ш                   |               | _       | L   | L       | L        | L          | L  |            |   | 84       | Ш               | $\perp$           | _        | $\perp$  | _        |          |             |          |          |     |          | 134        |                 | $\perp$        | $\perp$  | $\perp$ | L        |              |           |          |   |
|          | 35       | Ш                   | $\perp$       | $\bot$  | ┸   | ┺       | L        | L          | L  |            |   | 85       |                 | _                 | _        | _        | _        | _        |             |          |          |     |          | 135        | Ш               | ┙              | 丄  | ┸       | L        |              |           |          |   |
|          | 36       | Ш                   |               | 1       | 4   | ↓_      | $\perp$  | lacksquare | _  | l          | لــــا  | 86       | Щ               | $oldsymbol{\bot}$ | [        | ⅃        |          |          |             | Ш        |          |     |          | 136        |                 | $\perp I$      | $\bot$   | 工       | L        |              |           |          |   |
|          | 37       | Ш                   | _             | 4_      | 1   | $\perp$ | $\vdash$ | <u>_</u>   | 匚  |            | $\Box$  | 87       | Ц               | _                 | _        | _        | _        | _        |             |          |          |     |          | 137        |                 | $\Box$         |  | $\perp$ | L        |              |           |          | • |
|          | 38       | Ш                   | _ _           | 4_      | ╀   | ┖       | L        | L.         | L  | Į          |   | 88       | Ц               | _                 | _        | $\perp$  |          |          |             | Ш        |          |     |          | 138        | $\Box$          | $\perp \Gamma$ |  | L       | L        |              |           |          |   |
|          | 39       | Ш                   | _             | 1       | 1   | ╀-      |          | <u> </u>   | <u> </u>   |            | لــــا  | 89       | Ш               | _                 |          | $\dashv$ | _]       | _        |             |          |          |     |          | 139        | $\square$       | $\perp I$      |  | 上       | $\perp$  | $oxed{\Box}$ | $\Box$    |          |   |
|          | 4        | Ш                   | _             | -       | 4   | ↓_      | $\sqcup$ | 匚          | L_   |            | $\sqcup \sqcup$   | 90       | $\sqcup$        | _                 |          | _        | _        | _        | _           | $\Box$   |          |     |          | 140        | Ш               | _[             | _  | 上       | L        | $\perp$      | Ш         |          |   |
|          | 41       | Щ                   | _             | 1       | ↓_  | 1_      |          | ╙          | <u> </u>   |            | ш   | 91       | $\sqcup$        | _                 |          |          | _        |          |             | Щ        | _        |     |          | 141        |                 |                | $\perp$  | 1       | $\perp$  | $\perp$      | Ш         | $\Box$   |   |
|          | 42       | $\sqcup$            | 4             | 1       | 1   | 1       | $\vdash$ | <u> </u>   | L  |            | $\vdash \!$ | 92       | $\sqcup$        | 4                 | _        | _        | _        | _        | 4           | Ш        | _        |     |          | 142        | Ш               | 4              | 丄  | 丰       | 丰        | $\perp$      | Щ         | _        |   |
|          | 43       | $\sqcup$            | $\perp$       | +       | +   | ╄-      | $\vdash$ | <u> </u>   | <u> </u>   |            | $\vdash$  | 93       | $\vdash$        | 4                 |          | 4        |          |          | _           | Щ        | _        |     |          | 143        | $\sqcup$        | 4              | 4  | 丰       | ╄        | $\perp$      | Щ         | _        |   |
|          | 44       | $\vdash \downarrow$ |               | +-      | +   | 4-      | H        | <b> </b>   | <u> </u>   |            |   | 94       | $\sqcup$        | 4                 | _        | 4        | _        | _        | _           | Щ        | _        |     |          | 144        | $\sqcup$        | _              | +  | $\bot$  | $\vdash$ | ╙            | Ш         | _        |   |
|          | 45       | $\vdash \vdash$     | 4             | +       | 1   | ╄       | Н        |            |  |            | $\vdash$  | 95       | $\vdash \vdash$ | 4                 | _        | -        | 4        | _        | _           | $\sqcup$ |          |     |          | 145        | $\sqcup$        | 4              | 4  | +       | $\vdash$ | ₩            | Ш         | _        |   |
|          | 46       | $\vdash$            | 4-            | +       | ╄   | ╀       | $\vdash$ | <u> </u>   | <u> </u>   |            | $\vdash \vdash \vdash$  | 96       | 4               | 4                 | -        | 4        | 4        | _        | _           | $\dashv$ | _        |     |          | 146        | $\vdash$        | 4              | +  | ╄       | ╀-       | 4            | $\square$ | _        |   |
|          | 47       | $\dashv$            | -             | +       | ╄   |         | Н        | <u> </u>   | <u> </u>   |            |   | 97       | 1               | 4                 | 4        |          | $\dashv$ | _        | _           | $\dashv$ | _        |     |          | 147        | $\sqcup$        | 4              | 4  | 4       | ↓_       | ₽            | $\square$ | _        |   |
|          | 48       | $\dashv$            | +             | +       | ╀   | ┼-      | $\vdash$ | ├-         | <u> </u>   |            | ┝╾╌┤  | 98       | $\dashv$        | -+                | -        | -+       |          | -4       |             | -        | _        |     |          | 148        | $\dashv$        | 4              | +  | +       | ╀        | $\vdash$     | $\vdash$  | ᅴ        |   |
|          | 49       | 1                   | . 1           | 1       | 1   | 1       |          |            | l i  |            | ıi  | 99       |                 | - 1               | - 1      | - 1      | - 1      | - 1      | - 1         |          | - 1      |     | - 1      | 149        | 1               | - 1            | 1  | 1       | 1        | 1            | ıł        | - 1      |   |

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